

Recombinant Full Length Human HLA-B Protein, GST-tagged

Cat. No. HLA-B-3559HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HLA-B full-length ORF (AAH13187.1, 1 a.a. - 362 a.a.) recombinant protein with GST tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	362 amino acids
Description	HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exon 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-B alleles have been described. [provided by RefSeq]
Molecular Mass	66.9 kDa
AA Sequence	MRVTAPRTVLLLLSGALALTETWAGSHSMRYFYTAMSRPGRGEPFISVGYVDDTQ

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FVRFSDAASPREEPRAPWIEQEGPEYWDRNTQICKTNTQTYRESLRNLRGYYNQ
SEAGSHTLQRMYGCDVGPDRLLRGHDQYAYDGKDIALNEDLSSWTAADTAAQIT
QRKWEAAREAEQLRAYLEGLCVELRRYLENGKETLQRADPPKTHVTHHPISDHEA
TLRCWALGFYPAEITLTWQRDGEDQTQDTELVETRPAGDRTFQKWAAVVPSGEE
QRYTCHVQHEGLPKPLTLRWEPSQSTIPIVGIVAGLAVLAVVIGAVVATVMCRRKS
SGGKGGSYSQAASSDSAQGSVDVSLTA

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

HLA-B major histocompatibility complex, class I, B [Homo sapiens]

Official Symbol

HLA-B

Synonyms

HLA-B; major histocompatibility complex, class I, B; ankylosing spondylitis , AS;
lymphocyte antigen; MHC class I antigen SHCHA; MHC Class I HLA heavy chain;
MHC class I antigen GN00104; leukocyte antigen class I-B; MHC HLA-B cell surface
glycoprotein; MHC HLA-B transmembrane glycoprotein; MHC class I antigen HLA-B
heavy chain; HLA class I histocompatibility antigen, B alpha chain; AS; HLAB;
SPDA1; MGC111087;

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Gene ID	3106
mRNA Refseq	NM_005514
Protein Refseq	NP_005505
MIM	142830
UniProt ID	P01889

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